

United States Patent Office.

HAGOP H. CAPAMAGIAN, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 108,756, dated November 1, 1870.

IMPROVEMENT IN COMPOUNDS FOR TREATING WOOL.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, HAGOP H. CAPAMAGIAN, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Compound for Treating Wool; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

The object of this invention is to provide a simple, cheap, and efficient substance for the oil now used for preparing wool for picking, carding, spinning, and the other operations to which it is subjected in working into cloth, the oil being objectionable on account of the difficulty in expelling it from the yarn previously to coloring it, or, in case the color is applied to the wool previous to carding and spinning, the liability of removing or damaging the color in expelling the oil.

Owing to the difficulty of removing the oil without damaging the color, the coloring is most commonly done after the wool has been spun into yarn, and when so colored it must be removed from the bobbins and reeled into hanks, in which state the color is applied, after which it must be again wound upon bobbins to be delivered to the warpers. These operations involve a great amount of labor which it is desirable to avoid; moreover, the yarn being worked through so many operations must be spun harder than is necessary for the manufacture of soft cloth, or it will frequently break.

The adhesion of the oil to the wool or yarn is so great that hot water and soap must be used, together with a large measure of rubbing, which is very damaging to the colors, especially high colors. Hence the importance of a substitute which can be removed without injuring the colors, so that, the latter being

applied to the wool, the great saving of reeling and spooling above indicated may be effected.

This I effect by the application to the wool of the following mucous compound, which possesses all the necessary lubricating qualities, and may be removed from the cloth, after the yarn is woven, by washing in cold water, in such a way as not to effect the colors. The said compound consists of Irish moss, ten parts; water, one thousand parts; and bichromate of potash, one part. The bichromate is first dissolved in water heated to 180° Fahrenheit, and then the moss is steeped in the liquid, the whole mass being kept at the above temperature for about two days, after which, being strained, it is ready for use.

The Irish moss is used by preference, but other vegetable substances rich in mucous principle may be used instead of it.

I may also substitute other strongly-oxygenated salts formed by metallic acids for the bichromate of potash. The bichromate of potash is used to thicken the compound to the right consistency, which it does without making it gummy, and may be increased or varied as may be required. At the same time it prevents putrefaction or chemical changes.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The improved mucous compound, composed of the ingredients and prepared substantially in the manner described.

The above specification of my invention signed by me this 13th day of August, 1870.

Witnesses: HAGOP H. CAPAMAGIAN.

T. B. MOSHER,

GEO. W. MABEE.